

**ABM Panel**



**A. B. MARTIN**  
ROOFING SUPPLY, LLC

Roofing & Siding • Hardware • Lumber



*Roofing & Siding*

[www.abmartin.net](http://www.abmartin.net)



Roof: Charcoal Sides: Scarlet Red Trim: Bright White



Roof: Black Sides: Clay Trim: Bright White



Roof: Evergreen Sides: Light Stone Trim and Wainscoting: Evergreen



Roof and Trim: Colonial Red Sides: Clay



Roof and Trim: Pewter Gray Sides: Bone White



Roof: Scarlet Red Sides: Gallery Blue Trim: Bright White and Scarlet Red



Roof and Trim: Colonial Red Sides: Tan

*Great for Restoration!*

Give your old building a new look that will withstand the test of time.



Sides: Scarlet Red Trim: Bright White



Roof and Trim: Evergreen



Roof and Trim: Bronze



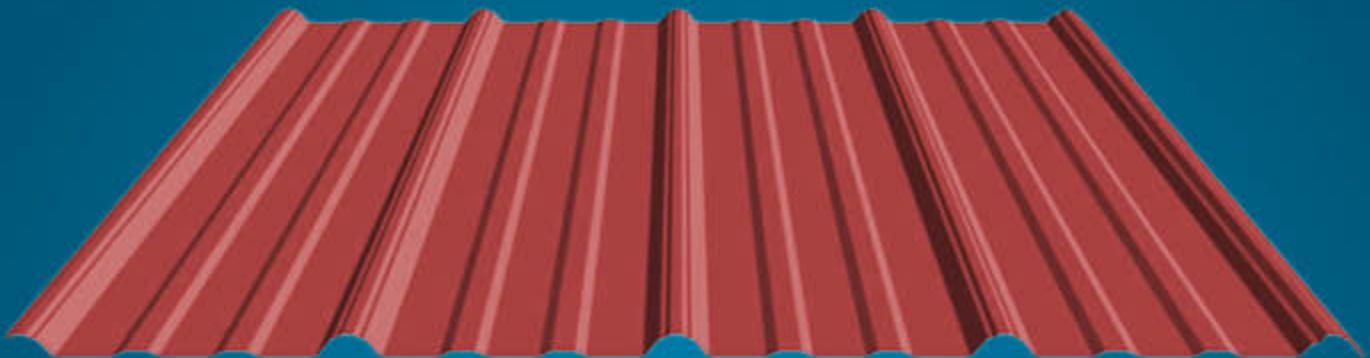
Roof and Trim: Ash Gray Sides: Bone White



Roof: Barn Red

# About the ABM Panel

Made to custom lengths in hours...not days.



**The ABM Panel is an excellent choice for residential, commercial, and agricultural roofing and siding**

Our most popular metal panel is by far the heavy-duty and long-lasting ABM Panel. This specially coated panel reflects as much as 83% of the sun's energy away from the roof, resulting in a cooler building in summer, and more energy savings.

More than 30 energy-efficient colors with 40-year paint warranties, including the new glare-resistant texture colors.

See how the ABM Panel is made on pages 8 and 9.

## 28 Gauge Steel

- Coverage: 36"
- Rib Spacing: 9"
- Rib Height: 3/4"
- Substraight: G-100 Galvanized (recommended for animal confinement) or AZ-50 Galvalume
- Available in over 24 energy-efficient colors
- Heat-formed (see why on page 4)
- Cut to custom lengths in hours...not days
- 40-year warranty + 10-year edge rust warranty on the Premium G100 panels (see warranty for details)

## 26 Gauge Steel

- Coverage: 36"
- Rib Spacing: 9"
- Rib Height: 3/4"
- Substraight: AZ-50 Galvalume
- Available in 15 colors, including 6 glare-resistant texture colors
- Heat-formed (see why on page 4)
- Cut to custom lengths in hours...not days
- 40-year warranty (see warranty for details)

### Online Color Visualizer



THERE'S GOOD REASON WHY THE ABM PANEL HAS BEEN

# HEAT-FORMED

FOR MORE THAN A DECADE



## Heat-formed Steel: What is it *AND* why is it important?

*"Heat-formed steel" and "cold-formed steel" are two terms that describe the different methods of manufacturing painted steel roof panels like the ABM Panel.*

The photos below are examples of what can happen to cold-formed panels after only a few years of exposure to the elements.



The panels above were made on a cold winter day. And when the flat steel sheets went through the forming process, the paint cracked, rather than bending with the steel.

It was only a matter of time before rust started showing in the tiny cracks.

But it's important to note that cracking doesn't just happen on cold winter days. According to the United States Steel Corporation, the steel needs to reach temperatures between 120° and 170° Fahrenheit or else...*crack.*

If the panels were painted after they were rolled out into their unique profile, cold-forming wouldn't be a problem. But the 5-ton coils come pre-painted from the factory.

So what is the alternative to cold-forming? The solution is to add an extra machine, that we call a heat box, to the assembly line. It's basically an oven. An oven that gets really hot. Like 1,000° hot!

In the second it takes for the steel to pass through the heat box, it goes from room temperature to over 125°F.

The oven temporarily softens the paint, which allows it to flex and bend with the steel as it goes through the roll former.

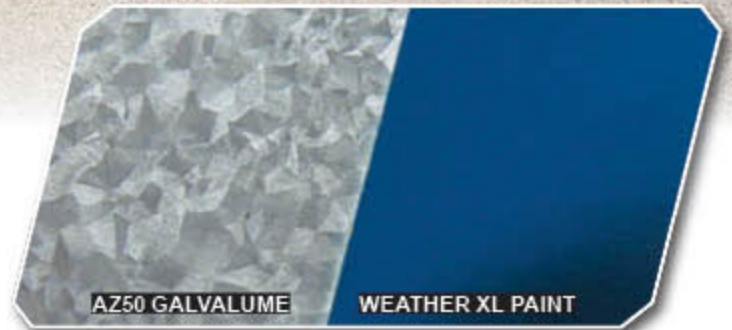
The steel cools down, the paint hardens, and the problem is solved. No rust stains.

# Galvanized or Galvalume?



G100 GALVANIZED

WEATHER XL PAINT



AZ50 GALVALUME

WEATHER XL PAINT

## Painted Galvanized

Galvanized steel is made by passing bare steel through a bath of molten zinc at 842 degrees Fahrenheit. The zinc coating that gives the steel sheet its resistance to weathering and rust, offers better cathodic (or sacrificial) protection for scratches and cut edges.

Galvanized steel is known to resist ammonia better than Galvalume. That means it is the best choice for use in animal confinement such as pig barns, dairy barns, horse barns, and chicken houses.

The G-100 ABM Panel comes with a 40-year paint warranty and a 10-year edge rust warranty on the Weather XL paint system from Valspar.

## Painted Galvalume

Galvalume, which typically costs less than Galvanized, is made from bare steel covered with a mixture of zinc, aluminum, and trace amounts of silicon to improve its long-term weathering capabilities.

Painted Galvalume is known to exhibit more short-term edge rust and tension-bend stains than Galvanized, but some experts claim the average long-term performance of Galvalume can be superior to Galvanized.

**It is very important to note that Galvalume can not be used with animal confinement.**

The Painted Galvalume ABM Panel comes with a 40-year paint warranty on the Weather XL paint system from Valspar.

# Is a metal roof more expensive than **Asphalt Shingles?**

## Time to re-roof?

### Asphalt Shingles

Material Estimate: **\$1,194\***  
Replace Every: 15-30 Years

Includes drip edge, ridge cap,  
and felt underlayment

### ABM Panel

Material Estimate: **\$1,267\***  
Replace Every: 40-80 Years

Includes ridge cap, screws, and trim

Know your  
options

*\*Based on the 30' x 30'  
garage pictured*



Choose metal!

Long Lasting. Energy Efficient. Beautiful.

Both metal and asphalt roofing get the job done when it comes to sheltering a building, but they really part ways in respect to durability, energy efficiency, and long-term savings.

On the surface, an asphalt shingle roof is the slim winner at \$1,229 versus \$1,266 for an ABM Panel metal roof. But if you look at the big picture, metal is the more economical choice.

The Asphalt Roofing Manufacturers Association states on their website, "If a residential roof is more than 20 years old, it is a prime candidate for reroofing."

Compare that to our ABM Panel with a 40-year paint warranty.

There is no question that a metal roof can stand the test of time better than asphalt shingles in most situations, and contractors will tell you

that there is very little keeping a properly maintained metal roof from lasting over 100 years (especially if it is a hidden fastener panel like our ABSeam Panel).

Metal lasts longer, is more energy efficient, is more beautiful, and can cost about the same as asphalt shingles.

The cost will be affected by the complexity of the roof. If it is a simple roof with few or no valleys, metal panels may be significantly cheaper and faster to install than asphalt shingles (including labor).

But, if the roof is more complex with several valleys and peaks, asphalt shingles are going to install faster and cost less in labor than metal panels, though the material costs might still be about the same. That said, it is still hard to beat the long-term savings of a metal roof.

\*Estimates based on the 30' x 30' garage pictured. Individual roofs may vary. Does not include tax. Does not include labor.

# Glare-resistant Texture

## Available in 6 Texture Colors

The unique textured surface provides more grip during installation and redirects sunlight for less glare than smooth panels.

6 colors in 26 gauge Galvalume with 40-year warranties.

Also available in our ABSeam profile (shown above).



*Texture*

*Smooth*



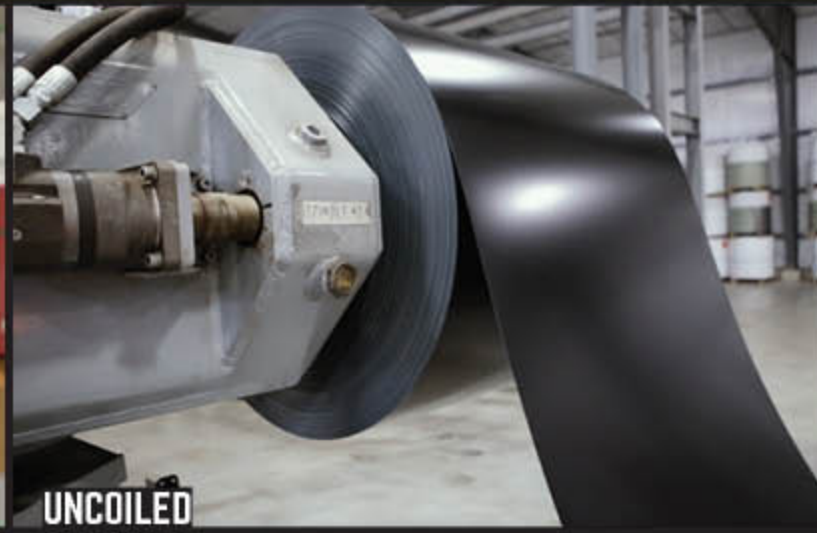
# How the ABM Panel is Made



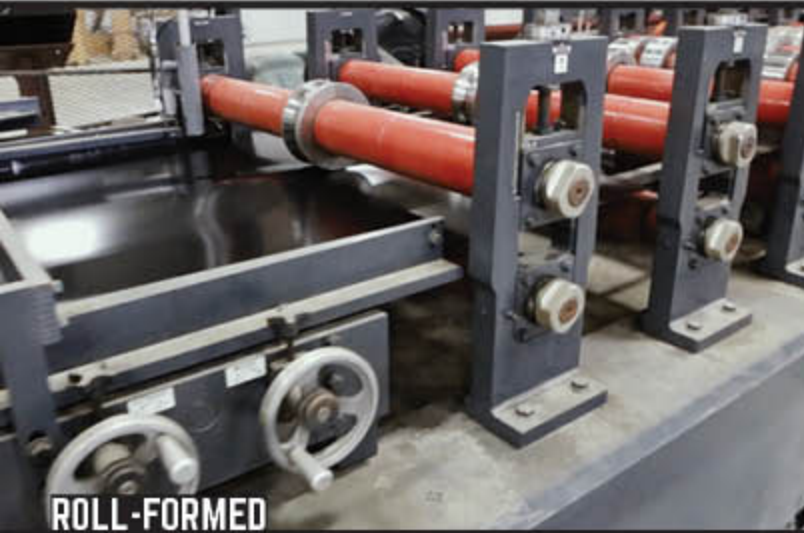
We purchase the 5-ton steel coils that meet our quality specifications directly from the steel plant.

We ship them, first, to the precoat facility, and then to Valspar's paint facility where the top coat is applied, before they are shipped to our warehouse.

The coils are cataloged and carefully stored out of the weather – ready for use.



When an order is received, the coils are placed on the uncoiler that feeds the steel onto the rollformer.



The cut sheets go through a series of rollers with dyes that form the steel into the ABM Panel profile.



Each ABM panel is imprinted on the underlap with the order number, customer name, product grade (example: G100 or Standard), panel length, and the date it was made.

This is how we are able to offer our low-hassle 40-year warranties. If there is ever a problem, the customer only needs to unscrew one of the panels to find the order number and manufacture date to initiate a warranty claim.



For better performance, the ABM panel passes through a 1,000° Fahrenheit heat-box that warms the panels and temporarily softens the paint coating. This allows the paint to flex and bend with the steel as the panel is formed.

Without heat-forming, the paint would crack and would likely rust.



The ABM panel is made to custom lengths within a ¼" thanks to what we call the "flying shear." The flying shear cuts the steel with amazing precision as it speeds down the line.



A cover sheet (which often varies in color) is placed on top of the stack to protect the panels before the stack is banded together.



A forklift transports the bundled panels to the customer's waiting truck or trailer, or places it on the holding rack ready for shipment to the job site.

# The Advantages of Steel Roofing

## Longevity

Perhaps the main advantage steel roof panels have over other roofing materials is longevity. Asphalt shingles are very popular, but mostly just in North America. In Europe and other parts of the world – where the houses are hundreds of years old – homeowners are not interested in putting on a roof that they will have to replace in 20 years or less.

Did you know that well-maintained steel roofs have been known to last well over 100 years?

## Energy Efficiency

One of the great advantages of steel roofing is its ability to block radiant heat.

While asphalt shingles absorb radiant heat, the physical properties of steel cause the radiant heat from outside (during the summer), or inside (during the winter) to bounce off steel roof panels. Meaning, your AC doesn't have to work as hard when the heat is trying to get in, and your heating system doesn't have to work as hard when the heat is trying to escape.

## Durability

Steel is by nature a hard substance, and steel roofing is actually the recommended roofing material in hail-prone areas because of its impact-resistance, as well as in hurricane zones because of its wind-resistance, and in areas subject to forest fires because of its fire-resistance.

## Aesthetics

Other advantages of steel roof panels include their clean, architectural look and vibrant colors. For these reasons, steel roofs are growing in popularity among homeowners. (They like the unique look that can be modern or classic.)

## Environmental Friendliness

It's almost not worth saying after talking about a steel roof that lasts for more than a lifetime, but, in contrast to other roofing products like asphalt shingles made from toxic materials that usually can't be re-purposed and are dumped into a landfill after only 20 years of service, a steel roof that's made from recycled material and is 100% recyclable after a long and useful life does seem like the responsible choice.





Roof and Trim: Bronze



Sides: Balge Trim and Wainscoting: Tan



Roof: Slate Blue Trim: Bright White



Roof and Trim: Evergreen Sides: Bone White



Roof: Galvanized Sides: Tan Trim and Wainscoting: Gallery Blue



Roof and Trim: Evergreen



Roof: Evergreen Sides: Light Stone Trim and Wainscoting: Evergreen



Roof: Scarlet Red Sides: Light Stone Trim and Wainscoting: Scarlet Red



Roof and Trim: Barn Red



Roof and Trim: Evergreen Sides: Balge



Roof: Barn Red



Roof: Gallery Blue Sides: Light Stone Trim and Wainscoting: Gallery Blue

# Who is A.B. Martin?

**A.B. Martin Roofing Supply** is a family-owned and family-operated manufacturer and supplier of long-lasting building materials.

We can trace our history back to a small beginning in 1947 when Amos B. Martin began selling metal roofing to his Lancaster, PA, neighbors for their chicken houses. Almost 70 years (and more than 1.5 million feet of metal) later, the 2nd and 3rd generations are supplying our customers with the highest quality lumber, insulation, fasteners, building materials, and metal roofing & siding.

*Serving Pennsylvania, New York, Maine, Vermont, New Hampshire, Connecticut, Massachusetts, Rhode Island, New Jersey, Delaware, Maryland, Virginia, West Virginia, and the surrounding states.*

Our large inventory combined with our professional sales team and versatile truck fleet allow us to serve you quickly, with unprecedented order turnarounds.



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